System and Method for Interruption-Free File Access

Abstract

An information service system for providing interruption-free information access service is disclosed to serve multiple users communicating to the system via a communications network. The system comprises a main program subsystem, an information access agent subsystem and an information storage subsystem. The main program subsystem executes a main program for providing information access service to the users by receiving user-issued I/O access requests. The information storage subsystem stores information required for implementing the information service. The I/O access agent subsystem processes user-issued I/O access requests by registering the requests received by the main program subsystem and submits the received requests to the information storage subsystem for implementing the read or write accesses corresponding to the requests. The I/O access agent subsystem relays the result of the requests to the main program subsystem for returning to the users upon completion of the submitted requests. The system continues services to user even when I/O access services are pending their corresponding results.